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ODP-0-1356
17 October 1980

MEMORANDUM FOR: Chief, Management Staff, DDA   STATINTL

FROM   :   ████████████
                   Chief, Management Staff, ODP

SUBJECT   :   New Communications Support Requirements for
                   FY 1983 – FY 1987

REFERENCE   :   Your Memorandum, Same Subject, dtd. 11 August
                   1980 (DD/A 80-1492/2)

1. The reference requests prioritized communications sup-
port requirements for FY 1983 – FY 1987. Attachment B is the
formal ODP response on the required forms. As requested, we have
included the following: A description of the ODP requirement;
the justification; the time span for the required communications
support; and the impact of not receiving the requested OC sup-
port. We have also provided the requested ODP prioritization for
use in the Directorate ranking.

2. In prioritizing our requirements, we have chosen to
emphasize key new initiatives (e.g., CAMS2) and support of
existing services over expanding and improving current
services. We further emphasized near-term requirements versus
out-year requirements. As you well know, any ranking of this
type must be considered tentative, and useful in only the most
general sense. For example, any sub-requirement, such as
relocation of a group of terminals, may under certain
circumstances assume a very high priority. With this in mind, a
summary of ODP requirements in priority order is presented in
Attachment A.

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3. Any general questions on the ranking of ODP requirements
may be addressed to ████████████████ of the ODP Management Staff
on X5937(B) or 1347(R). For specific questions on any require-
ment please feel free to go directly to the indicated contact.

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cc: DD/A
     DD/P
     C/SPS
     C/P&PG
     C/P&BG
     PO/MS/ODP
     C/ED/P/ODP

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ATTACHMENT A

SUMMARY OF PRIORITIZED ODP COMMUNICATIONS SUPPORT
REQUIREMENTS, FY 1982 - FY 1987

1. CAMS2 Development Facility Communications Support (FY
   1982).*

      Communications support for a 50 person staff
      in an unspecified outbuilding. (U)

2. CAMS2 Communications Upgrade (FY 1984).

      Support for 4-to 10-fold increase in CAMS
      message traffic. (U)

3. Wideband Bus Communications System (WBCS) Support (FY 1983).

      Operations and maintenance of the
      Headquarter's WBCS. (U)

4. 4C System (Phase II) Worldwide Communications Support (FY
   1983).

      Extension of 4C communications support world-
      wide in conjunction with DIA. (U)

5. Installation of COMTEN Equipment in Outbuildings (FY 1984).

      Required COMTEN front-end processors will
      improve error rates between Headquarters and
      outbuildings. (C)

6. General Headquarters and Outbuilding Communications Support
   (FY 1983).

      Installation and relocation of terminals on
      the grid and WBCS. (U)

7. Development of Interface between WBCS and COMTEN Processors
   (FY 1983).

      Required for operation of Headquarter's
      WBCS. (U)

*Initial year of requirement in parenthesis

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8. Automatic Resynchronization of Cryptographic Devices in Outbuilding Circuits (FY 1983).

    Required to minimize outages in outbuilding communications. (U).

9. Enhanced Circuit Speed Capabilities (FY 1983).

    Required for new equipment types (e.g., plotters, graphics terminals, etc.). (U)

10. Additional Data Lines and Patch Panels in Ruffing and Special Centers (FY 1986).

    Required to accommodate projected increase in number of terminals. (U)

NOTE: The requirement for OC to maintain field deployed Delta 7000 series terminals is not included in the ODP sub-mission. It is expected that responsible components, such as the Information Management Staff, DO, will submit these requirements to OC directly. (C)

ATTACHMENT B

DDA RANK: _____ Of _____
OFFICE RANK: ___1__ Of __10__

OFFICE: ODP/Applications/A Division

TITLE: CAMS2 Development Facility Communications Support

REQUIREMENT:

As part of the expansion of the total workforce for the develop-
ment of CAMS2, an additional secure facility must be leased to
house the Development and Integration contract personnel. This
facility will require secure voice and secure data transmission
facilities for approximately 50 personnel. This facility will be
in the ████████████ area and should be leased in the next six
months. Funds for these secure communications facilities are in
the FY 1982 CAMS budget.

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JUSTIFICATION:

This facility is necessary to support the development of CAMS2 in
response to national collection system enhancements and modifica-
tions planned for the 1984/85 timeframe. The Agency simply does
not have the space to house this effort.

TIME REQUIREMENT:

Communications support to this facility must be in place not
later than January 1982 and continue through FY 1987.

IMPACT OF LACK OF SERVICE ON OTHER PROGRAMS:

If this service is not provided, data processing support to en-
hance CAMS for the new/modified collection systems cannot be
accomplished within the required timeframe thus depriving the
Agency and the remainder of the Intelligence Community of a valu-
able and responsive source of intelligence.

CONTACT:

STATINTL

    NAME

    OFFICE: C/A Division/ODP

    TELEPHONE: X6387 or 8817 secure

OFFICE: ODP/Applications/A Division

TITLE: CAMS2 Communications Upgrade

REQUIREMENT:

The COMIREX Automated Management System (CAMS) is being upgraded
for the 1984/85 timeframe. This upgrade, CAMS2, is necessary to
support the significant improvement in technical collection
capabilities planned during that timeframe. We anticipate a 4-to
10-fold increase in the volume of CAMS message traffic (currently
via DATEX). We anticipate the need to use the bulk data transfer
capability of Project Mercury as soon as it is available.

JUSTIFICATION:

Increase is due to enhanced national collection systems in-
creases. This requirement was levied upon ODP by PTO/CTS.

TIME REQUIREMENT:

Required no later than 1 April 1984 and through FY 1987.

IMPACT OF LACK OF SERVICE ON OTHER PROGRAMS:

CAMS must have a responsive communications network in order to
fulfill its mission. We expect to be a heavy user of Mercury and
must be able to rely on whatever interim support is being

planned. If the support is not provided, CAMS loses its ability to provide current accomplishment data and quickly task the collection systems.

CONTACT:

STATINTL

NAME:

OFFICE: C/A Division/ODP

TELEPHONE: X6387 or 8837 (secure)

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DDA RANK:        ___ Of ___
OFFICE RANK:     3  Of  10
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OFFICE: ODP/Special Projects Staff and Engineering Division

TITLE: Wideband Bus Communications System (WBCS) Support

REQUIREMENT:

The Office of Communications is to assume operation and mainte-
nance responsibility for the WBCS during the second quarter of FY
1983. In July 1982, the SAFE and WBCS development contractor,
█████ will issue a proposal for providing operations and
maintenance support of SAFE and the WBCS through FY 1983.
Therefore, while OC will be responsible for operation and
maintenance of the WBCS, ████ may be available to augment that
support.

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JUSTIFICATION:

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The WBCS will be installed and tested during FY 1980 through FY
1982. The WBCS will be placed into operation with the first
increment of the SAFE system during the second quarter of FY
1983. Operation and maintenance training will be provided by the
SAFE development contractor during the first quarter of FY
1983. The operation and maintenance responsibility by OC is
consistent with the WBCS development agreement between ODP and
OC.

TIME REQUIREMENT:

Beginning in the second quarter FY 1983, through FY 1987.

IMPACT OF LACK OF SERVICE ON OTHER PROGRAMS:

The WBCS is being designed to support the entire Headquarters Building. Lack of this support would seriously degrade SAFE, and other ODP services that will utilize the WBCS.

CONTACTS:

STATINTL

NAME:

OFFICE: SPS/ODP; Teleprocessing Branch/ED/P/ODP

TELEPHONE: X2665; or 3731 (secure); X6986 or 8822 (secure)

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DDA RANK:        Of
OFFICE RANK:    4  Of    10
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OFFICE: ODP/Applications/B Division

TITLE: 4C System (Phase II) World-wide Communications Support

REQUIREMENT:

Maintain Phase I network and extend system communications world-wide in cooperation with DIA communications. Funds for terminal and communications acquisition, installation and first-year maintenance will be budgeted by the Office of Security.

JUSTIFICATION:

Mission required under APEX implementation.

TIME REQUIREMENT:

FY 1983 - 1985: About 12 terminal locations per year. Operations and maintenance required through FY 1987.

IMPACT OF LACK OF SERVICE ON OTHER PROGRAMS:

APEX could not be extended world-wide.

CONTACT:

STATINTL

NAME: █████████████

OFFICE: ODP/B Division

TELEPHONE: X8338 or 93-0951 (secure)

ODP COMMUNICATIONS SUPPORT REQUIREMENTS FOR FY 83-87

DDA RANK: _____ Of _____
OFFICE RANK: __5__ Of __10__

OFFICE: ODP/Processing/Engineering Division

TITLE: Installation of COMTEN Equipment in Outbuildings

REQUIREMENT:

Install COMTEN equipment in outbuildings. ODP will budget for the lease costs for the first year and OC will budget for the following years. OC must also budget for the patch panels and associated materiel.

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BUILDING	COMTEN	MONTHLY COST LEASE + MAINTENANCE	ODP BUDGET YEAR	OC BUDGET YEAR
			FY 83	FY 84-87
C of C			FY 83	FY 84-87
			FY 83	FY 84-87
			FY 83*	FY 84-87
			FY 83*	FY 84-87
East/South/ Central			FY 83*	FY 84-87

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*Funding constraints may defer installation to FY 84.

JUSTIFICATION:

Installation of COMTEN equipment is required to meet customer requirements for a low error rate.

TIME REQUIREMENT:

FY 83-87 (see above)

IMPACT OF LACK OF SERVICE ON OTHER PROGRAMS:

Failure to install COMTEN equipment in the outbuildings will reduce the utility of data processing services because of high error rate.

CONTACT:

STATINTL

NAME: ███████████

OFFICE: Teleprocessing Branch/ED/P/ODP

TELEPHONE: X6036 or 8822 (secure)

ODP COMMUNICATIONS SUPPORT REQUIREMENTS FOR FY 83-87

DDA RANK: ___ Of ___
OFFICE RANK: 6 Of 10

OFFICE: ODP/Processing/Engineering Division

TITLE: General Headquarters and Outbuilding Communications
Support

REQUIREMENT:

This support includes installing new, non-SAFE devices; general
relocation of devices; relocation of devices from the grid to the
bus; providing new data circuits; and upgrading existing cir-
cuits. To connect the asynchronous and synchronous data proc-
essing equipment to the bus, OC must provide Bus Interface Units
(BIUs), crypto modules, and relocation support. All devices con-
nected to the grid must be moved to the bus during FY 1984 and FY
1985. This requires approximately ████████ to be moved in
each of these years. In addition, 120 new devices must be con-   STATINTL
nected to the bus in each of these and following years. These
figures do not include the general requirements to relocate ter-
minals as users move between offices. The attached table
provides the details of this requirement.

JUSTIFICATION:

The BIUs, crypto modules, and relocation support are necessary to
move the data processing equipment from the grid to the bus and
to connect newly installed devices to the bus. General instal-
lation and relocation support is necessary for users to have
access to ODP facilities.

TIME REQUIREMENT:

FY 83-87

IMPACT OF LACK OF SERVICE ON OTHER PROGRAMS:

Failure to provide the necessary equipment and relocation ser-
vices for connection to the bus will prevent ODP from providing
additional terminals or new services to customers because the
grid is presently filled to near its capacity. Failure to pro-
vide the routine installation and relocation services will pre-
vent ODP from satisfying user requests for data processing ser-
vices.

CONTACT:

STATINTL

    NAME:

    OFFICE: Teleprocessing Branch/ED/P/ODP

    TELEPHONE: X6036 or 8822 (secure)

GENERAL HEADQUARTERS AND OUTBUILDING COMMUNICATIONS
SUPPORT (CONTINUED)

NEW INSTALLATIONS	FY83	FY84	FY85	FY86	FY87
HQs grid					
HQs bus					
Outbuildings					
TOTAL					
RELOCATIONS:					
To the bus from the grid					
General					
TOTAL					

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ODP COMMUNICATIONS SUPPORT REQUIREMENTS FOR FY 83-87

DDA RANK: ____ Of ____
OFFICE RANK: __7__ Of __10__

OFFICE: ODP/Processing/Engineering Division

TITLE: Development of Interface between the WBCS and COMTEN
          Processors

REQUIREMENT:

Develop and provide interfaces between the WBCS (bus) and the
COMTEN front-end processors presently in use. A sufficient
number of these interfaces will be required to allow
approximately ▆▆▆▆ data processing devices to be interfaced from
the bus to the COMTENs. Maintenance of the interfaces is also
required.

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JUSTIFICATION:

This interface will be required to allow terminals and other
devices to be moved from the copper grid to the bus.

TIME REQUIREMENT:

FY 83-87.

IMPACT OF LACK OF SERVICE ON OTHER PROGRAMS:

Failure to provide these interfaces will prevent additional
terminals from being installed because the copper grid is
presently filled to near its capacity.

CONTACT:

STATINTL

NAME: ████████████████

OFFICE: Teleprocessing Branch/ED/P/ODP

TELEPHONE: X6036 or 8822 (secure)

ODP COMMUNICATIONS SUPPORT REQUIREMENTS FOR FY 83-87

DDA RANK: ____ Of ____
OFFICE RANK: __8__ Of __10__

OFFICE: ODP/Processing/Engineering Division

TITLE: Automatic Resynchronization of Cryptographic Devices in Outbuilding Circuits

REQUIREMENT:

All trunk circuits carrying data processing services to outbuildings must have the capability for the cryptographic equipment to automatically resynchronize following an outage or other circuit aberration which caused a loss of cryptographic synchronization.

JUSTIFICATION:

Some users located in outbuildings experience long outages because the cryptographic equipment loses synchronization and remains out of synchronization until OC is notified via telephone. The length of these outages must be reduced from minutes to a few seconds.

TIME REQUIREMENT:

FY 83

IMPACT OF LACK OF SERVICE ON OTHER PROGRAMS:

Failure to provide this capability will reduce the utility of data processing services to users located in the outbuildings.

CONTACT:

STATINTL

NAME: ████████

OFFICE: Teleprocessing Branch/ED/P/ODP

TELEPHONE: X6036 or 8822 (secure)

ODP COMMUNICATIONS SUPPORT REQUIREMENTS FOR FY 83-87

DDA RANK: ___ Of ___
OFFICE RANK: 9 Of 10

OFFICE: ODP/Processing/Engineering Division

TITLE: Enhanced Circuit-Speed Capabilities

REQUIREMENT:

ODP requires circuits which operate at the following speeds, in order to support projected ADP requirements.

ASYNCHRONOUS - 300, 600, 1200, 2400, 4800, 9600, and 19,200 bits per second.

SYNCHRONOUS - 2.4., 4.8, 9.6, 19.2, 56.0, and 64.0 kilobits per second.

JUSTIFICATION:

In order to satisfy requirements for new types of equipment and services, the above data rates must be provided by OC. Examples of these requirements are: plotters, color graphics terminals, word processing stations, high volume/high quality printers located in outbuildings, and interfaces with minicomputer installations.

TIME REQUIREMENT:

This requirement will continue from FY 83 through FY 87.

IMPACT OF LACK OF SERVICE ON OTHER PROGRAMS:

Failure to provide these data rates would prevent ODP from satis-
fying customer requirements.

CONTACT:

STATINTL

    NAME:

    OFFICE: Teleprocessing Branch, ED/P/ODP

    TELEPHONE: X6036 and 8822 (secure)

ODP COMMUNICATIONS SUPPORT REQUIREMENTS FOR FY 83-87

DDA RANK: _____ Of _____
OFFICE RANK: <u>10</u> Of <u>10</u>

OFFICE: ODP/Processing/Engineering Division

TITLE: Additional Data Lines and Patch Panels in the Ruffing and Special Centers

REQUIREMENT:

Additional data lines and patch panels must be installed in the Ruffing and Special Centers to accommodate new terminal installations. This requirement is to install 336 asynchronous and 48 bisynchronous data lines and associated patch panels between the bus Processor Interface Units (PIUs) and the COMTENs in the Ruffing and Special Centers. If the design of the bus interface allows for direct communications with the COMTEN processors, these additional patch panels and lines will not be needed.

JUSTIFICATION:

These additional data lines and patch panels are required to support the planned installation of new terminals.

TIME REQUIRMENT:

FY 86

IMPACT OF LACK OF SERVICE ON OTHER PROGRAMS:

Failure to provide these data lines and patch panels will prevent

ODP from providing data processing services to additional users.

CONTACT:

        NAME: ▮▮▮▮▮▮▮

STATINTL   OFFICE: Teleprocessing Branch/ED/P/ODP

        TELEPHONE: · · X6036 OR 8822 (secure)